MAY 1 0 2012

510(k) Summary

GENERAL INFORMATION

5.1 Type of Submission

Traditional 510(k) Submission

Submission date:

12/12/2011

5.2 Submitter

Name:

CareFusion Germany 234 GmbH

Address:

Leibnizstrasse 7

D-97204 Hoechberg

Germany

Contact person in Germany:

(Regulatory Affairs Specialist)

Address:

Elmar Niedermeyer

CareFusion Germany 234 GmbH

Leibnizstrasse 7, 97204 Hoechberg

Germany

Phone:

+49 931 49 72 - 361 +49 931 49 72 - 62361

FAX: E-mail

elmar.niedermeyer@carefusion.com

Contact person in the U.S.:

(Official Correspondent)

Address

Carol Emerson

CareFusion

22745 Savi Ranch Parkway

Yorba Linda, CA 92887

Phone:

714-919-3342

Fax:

714-283-8420

E-mail:

carol.emerson@carefusion.com

5.3 Establishment Registration Number

9615102

5.4 Common Name or Classification Name

Calculator, Predicted Values, Pulmonary Function (CFR 868.1890, Product Code BTY) Pulmonary function data calculator (CFR 868.1880, Product Code BZC) Diagnostic Spirometer (CFR 868.1840, Product Code BZG)

5.5 Trade Name

SentrySuite Product Line

5.6 Device Classification

This is a Class II device

5.7 Classification Panel

73 Anesthesiology Part 868 Code BTY, BZG, BZC

5.8 Reason for Premarket Notification

--- Modification of legally marketed devices --Change from previously **JLAB** software to **SentrySuite** software for the device
MasterScreen PFT K072061 by adding it to the SentrySuite Product Line.

5.9 Legally predicate marketed device

SentrySuite Product Line K111053 Code BTY, BZC, BZG MasterScreen PFT K072061 Code JEH

5.10 Predicate Device Company

CareFusion Germany 234 GmbH

5.11 Device Description

The SentrySuite Product line when operating on the existing hardware for MasterScreen Pneumo, MasterScreen IOS, APS Pro and MasterScreen PFT will be as functional as the existing version of JLAB software for all the available measuring programs and options for these devices.

- The SentrySuite software replaces the JLAB software and got a brand-new graphical surface.
- Measurement can be accomplished under SentrySuite software equivalent as it was possible under the previously powerful JLAB software
- The results of the tests can be viewed on-line on the computer screen during the test and can be saved on the computer hard disk for further referral or report generation purposes.

- SentrySuite provides the functionality currently available on the MasterScreen devices using the JLAB software.
- SentrySuite can be operated on workstations and on servers.

Measurements:

- Spiormetry
- Flow Volume
- Maximal Voluntary Ventilation (MVV)
- Incentive Spirometry
- R-Occlusion
- Impulse oscillometry
- Bronchial test
- FRC Helium Rebreathing
- Real Time Single Breath Diffusion
- Intra Breath Diffusion

5.12 Intended Use Statement

The SentrySuite Product line is intended to be used for measurements, data collection and analysis of lung function (PFT) parameters, aiding in the diagnosis of related conditions. All the measurements are performed via a mouthpiece, a mask or nasal adapters. The results of the test can be viewed on-line with the help of a computer screen and can be printed after the test. The test results can be saved for further referral or report generation purposes.

Use of the Option Bronchial Challenge requires the supervision of a physician familiar with emergency medicine.

The products can be utilized for patients from 4 years on and older as long as they can cooperate in the performance – no special limit to patient's sex or height.

Measurements will be performed under the direction of a physician in a hospital environment, physician's office or similar settings.

5.13 Required Components

- Measuring device MS-Pneumo or MS-IOS or APS Pro or MS-PFT
- Or Workstation / Server
- Trolley / Stand
- High performance computer
- Printer
- Accessories
- SentrySuite software 2.5
- Instruction for Use

5.14 Summary Table of Comparison

A) Comparison to predicate device SentrySuite Product Line 510(k) # K111053

| | SentrySuite Product Line (K111053) | SentrySuite Product Line | |
|------------------------|---|--------------------------|--|
| Indications for Use | The SentrySuite Product line is intended to be used for measurements, data collection and analysis of lung function (PFT) parameters, aiding in the diagnosis of related conditions. All the measurements are performed via a mouthpiece, a mask or nasal adapters. The results of the test can be viewed on-line with the help of a computer screen and can be printed after the test. The test results can be saved for further referral or report generation purposes. Use of the Option Bronchial Challenge requires the supervision of a physician familiar with emergency medicine. The products can be utilized for patients from 4 years on and older as long as they can cooperate in the performance — no special limit to patient's sex or height. Measurements will be performed under the direction of a physician in a hospital environment, physician's office or similar settings. | identical | |
| Patient population | The products can be utilized for patients from 4 years on and older as long as they can cooperate in the performance – no special limit to patient's sex or height. | identical | |
| Hardware | APS Pro • Nebulizer head • Compressor • Trolley or Stand with power supply • Desktop / Notebook • Accessories MasterScreen Pneumo • Trolley or Stand with power supply • Pneumotach handle • Desktop / Notebook • Accessories MasterScreen IOS • Trolley or Stand with power supply • Pneumotach handle • Desktop / Notebook • Accessories | identical | |

| Software | SentrySuite Software (version 2.3) | SentrySuite Software (version 2.5) | |
|--|--|------------------------------------|--|
| Perfor- mance specifica- tion (measure- ment programs) | APS Pro Bronchial test Bronchospasmolysis Bronchoprovocation Pulsed Nebulization Continuous Nebulization MasterScreen Pneumo Spirometry Incentive Spirometry Flow / Volume MVV R-Occlusion (Airway Resistance) MasterScreen IOS Spirometry Incentive Spirometry Incentive Spirometry Flow / Volume MVV Impulse oscillometry | identical | |
| Energy type | 100 – 240V / 50 – 60Hz | identical | |
| Patient contacting parts | Single Use mouthpiece (material: Bormed RG835 MO) Silicone mouthpiece Nose clip (material: Polyacetal) Nose clip pad (material: Ethylene Vinyl Acetate) | identical | |
| Sterili- zation | The devices from the SentrySuite Product Line (APS Pro, MS Pneumo, MS IOS) along with its accessories are neither supplied sterile nor intended to be sterilized | identical | |
| Software Network options | Use as Workstation Use as Server Online connection Vlink connection GDT connection Data integration Database handling JINET server | Identical | |

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B) Comparison to predicate device MasterScreen PFT 510(k) # K072061

| | MasterScreen PFT (K072061) | SentrySuite Product Line |
|--|---|-----------------------------------|
| Perfor- mance specifica- tion (measure- ment programs) | MasterScreen PFT | Identical |
| Hardware | Trolley with power supply Analyzer box (gas) Pneumotach handle Desktop / Notebook Accessories | Identical |
| Software | JLAB Software 5.x | SentrySuite Software (version 2.5 |

Discussion to the two tables above:

The insignificant difference from the SentrySuite Product Line with 510(k) K111053 to the extended SentrySuite Product Line is:

- The SentrySuite software with version 2.3 will be superseded by the SentrySuite software with version 2.5. The measurement programs for the medical applications for APS Pro, MasterScreen Pneumo and MasterScreen IOS remain thereby untouched.
- The device MasterScreen PFT K072061 with the measurement programs from the table "B" above will be added to the SentrySuite Product Line under the SentrySuite software version 2.5.

In Summary: The SentrySuite Product Line K111053 with software SentrySuite 2.3 will be expanded with the measurements "FRC Helium Rebreathing, Real Time Single Breath Diffusion and Intrabreath Diffusion" and the software version is the SentrySuite 2.5.

5.15 Summary of Device Testing

The following practices were followed and monitored for development of the SentrySuite Product Line:

- The modification for the above device was developed in accordance with the CareFusion Design and Development SWI (0301-5001-000-SWI).
- The software was developed according to IEC 62304 (Software lifecycle processes) and IEC 62366 (Usability) standard.
- The risk analysis method used to assess the impact of the SentrySuite software was a Failure Modes and Effects Analysis (FMEA) according standard ISO 14971.

5.16 Conclusions

Based on the above, CareFusion Germany 234 GmbH concludes that the SentrySuite Product Line with the SentrySuite software is substantially equivalent to the legally marketed predicate devices and is safe and effective for its intended use, and performs at least as well as the predicate devices.

DEPARTMENT OF HEALTH & HUMAN SERVICES



Food and Drug Administration 10903 New Hampshire Avenue Document Control Room – WO66-G609 Silver Spring, MD 20993-0002

Mr. Elmar Niedermeyer Regulatory Affairs Specialist CareFusion Germany 234 GmbH Leibnizstrasse 7 Hoechberg GERMANY 97204

MAY 1 0 2012

Re: K113813

Trade/Device Name: SentrySuite Product Line

Regulation Number: 21 CFR 868.1890

Regulation Name: Predictive Pulmonary-Function Value Calculator

Regulatory Class: II

Product Code: BTY, BZC, BZG

Dated: April 23, 2012 Received: April 26, 2012

Dear Mr. Niedermeyer:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Anthony D. Watson, B.S., M.S., M.B.A.

Director

Division of Anesthesiology, General Hospital, Infection Control and Dental Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): K

| Device Name: S | SentrySuite Product L | ine | • |
|---|--|---|---|
| Indications for Use: | | , | |
| | | | |
| The SentrySuite Product line is analysis of lung function (PFT) the measurements are performed the test can be viewed online test. The test results can be say Use of the Option Bronchial Commergency medicine. The products can be utilized for cooperate in the performance Measurements will be performed physician's office or similar seconds. |) parameters, aiding in med via a mouthpiece with the help of a con aved for further refers thallenge requires the or patients from 4 years on special limit to pred under the direction | in the diagnosis of relate, a mask or nasal adapenputer screen and can ral or report generation e supervision of a physicars on and older as longuatient's sex or height. | ed conditions. All oters. The results of the printed after the purposes. Cian familiar with g as they can |
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